

AMENDMENT UNDER 35 U.S.C. § 1.111
Appln. No.: 09/924,546

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A battery separator consisting essentially of a nonwoven fabric having a substantially unilayered structure, wherein an apparent total surface area of fibers per a surface density of said nonwoven fabric is $20 \text{ m}^2/\text{m}^2$ or more, a thickness of said nonwoven fabric is 0.1 mm or less, a uniformity index of said nonwoven fabric is 0.15 or less, said nonwoven fabric consists essentially of non-fibrillated fibers, and said nonwoven fabric contains fine fibers having a fiber diameter of $4\mu\text{m}$ or less and high-modulus fibers having a Young's modulus of 50 cN/dtex or more.

2. (canceled)

3. (currently amended): The battery separator according to claim 1, wherein the fine fibers are formed from island components remaining after removing a sea component from islands-in-sea ~~type~~ composite fibers.

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4. (canceled)

5. (original): The battery separator according to claim 1, wherein the nonwoven fabric contains fusible fibers.

6. (original): The battery separator according to claim 1, wherein the nonwoven fabric contains the fine fibers, high-modulus fibers and fusible fibers.

7. (original): The battery separator according to claim 6, wherein a combination ratio of the fine fibers : the high-modulus fibers : the fusible fibers in terms of mass is 10 to 40 : 15 to 40 : 20 to 75.

8. (currently amended): The battery separator according to claim [[4, 6, or 7]] 6 or 7, wherein an average fiber diameter of the high-modulus fibers is 5 times or more an average fiber diameter of the fine fibers.

9. (currently amended): The battery separator according to claim [[4, 6, or 7]] 6 or 7, wherein an average fiber length of the high-modulus fibers is 2.5 times or more an average fiber length of the fine fibers.

10. (original): The battery separator according to claim 1, wherein the nonwoven fabric consists essentially of polyolefin-based fibers.

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11. (original): The battery separator according to claim 1, wherein the fibers forming the nonwoven fabric are fixed substantially only by fusing the fibers to each other.

12. (original): The battery separator according to claim 1, wherein a maximum pore size in the nonwoven fabric is 40 μm or less.

13. (original): The battery separator according to claim 1, wherein a void rate of the nonwoven fabric is 45 to 65 %.

14. (original): The battery separator according to claim 1, wherein a tensile strength of the nonwoven fabric in at least one direction is 20 N/5cm width or more.

15. (original): The battery separator according to claim 1, wherein the nonwoven fabric is subjected to a treatment for imparting a hydrophilic property, selected from a group consisting of a sulfonating treatment, a treatment with fluorine gas, a graft polymerization treatment with vinyl monomers, and a discharging treatment.

16. (original): The battery separator according to claim 1, wherein surfaces of the fibers forming the nonwoven fabric consist essentially of a polypropylene resin.